

जिल्ह्य विश्वतिक विष्यतिक विश्वतिक विष्वतिक विष्वतिक विष्यतिक विष्यतिक विष्यतिक विष्यतिक विष्यतिक विष्यतिक विष्यतिक विष्यतिक विष

(मानव संसाधन एवं विकास मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय महत्त्व का संस्थान) INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

DHANBAD, JHARKHAND, INDIA, PIN-826004
(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone (0326) 2235678 || Email: purchase@ismdhanbad.ac.in || Website: www.iitism.ac.in

No.: Lib-500446-17-18 Date: 19.03.2018

# Corrigendum

Subject: Extension of date for submission of Bids for Supply and Installation of Computer Server Rack.

With reference to NIT No Lib-500446-17-18 dated 08.02.2018, it is being informed that last Date and time for submission of tenders & Date and time of opening of tenders mentioned in the NIT is extended till 05.04.2018 at 01:00 PM.

The others terms & condition of the tender will remain the same

Encl: As above

Assistant Registrar



# भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनवाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन एवं विकास मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय महत्त्व का संस्थान) INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone: (0326) 2235678 || Email: purchase@ismdhanbad.ac.in || Website: www.iitism.ac.in

No.: Lib-500446-17-18

Date: 19.03.2018

### NOTICE INVITING TENDER

Subject: Supply & Installation of Computer Server Rack - 01 No.

Sir,

Indian Institute of Technology (Indian School of Mines), Dhanbad invites quotations for the following to be supplied and delivered in Central Library Department.

S No	Full Description of items/ store	Qty	Delivery
1	Supply & Installation of Computer Server rack (Detailed specification as per Annexure I – 04 to 06 pages)	01 No.	At the Earliest

### Tender Schedule

Particulars	Date & Time
Last date and time for submission of tenders	01.03.2018 at 1:00 P.M.
Date and time of opening of tenders	01.03.2018 at 4.00 P.M.

1. You are requested to quote your lowest rates for the supply of above items in the attached format for Financial Bid (Annexure – II)

2. You may send your representative in the office of the undersigned at the scheduled date and time of opening of tender.

3. Tender should be submitted in sealed cover only superscribed with Enquiry No. and due date at the following address only:

The Deputy Registrar (P&S)
Indian Institute of Technology (Indian School of Mines),
Dhanbad – 826 004 Jharkhand

P19/03/18

Date: 19.03.2018



## भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन एवं विकास मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय महत्त्व का संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone (0326) 2235678 || Email : purchase@ismdhanbad.ac.in || Website : www.iitism.ac.in

No.: Lib-500446-17-18

### Terms & Conditions

1) The rates should be quoted for each item separately.

2) Conditional offer will not be accepted.

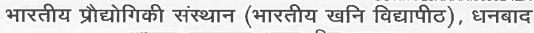
3) IIT (ISM) does not issue any Form 'C' or 'D' towards sales tax concessional rate. Hence, full rate of GST applicable should be quoted.

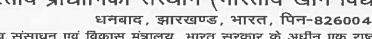
4) Educational discount, if any, should be clearly mentioned.

- 5) You are requested to submit your quotation strictly as per the specifications mentioned in the NIT.
- 6) Your tender must be valid for minimum 90 days from the date of opening of tender.
- 7) Please mention warranty/ guarantee in your offer clearly. Material/ equipment to be supplied must have minimum warranty/guarantee of 12 months.
- 8) Each page in the bid document must be numbered properly and duly signed & sealed by the bidder on every page of the bid.
- 9) The items/ materials shall be required to be delivered at Central Library, IIT (ISM) Dhanbad at the risk and cost of the tenderer.
- 10) Unloading and installation shall be the complete responsibility of the supplier.
- 11) The stores are required to be delivered within 30 days. Late delivery may not be accepted.
- 12) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 13) Advance payment is not admissible. Payment shall normally be made within 3-4 weeks subject to receipt and acceptance & installation (as per Purchase Order Terms) of the ordered materials/items.
- 14) In the event date on which the tender is opened for acceptance is declared to be a holiday, the tenders shall be deemed to remain open for acceptance till the next working day.
- 15) Please send your offer by Regd.Post/ Speed Post/ Courier along with Courier receipt. Tender/ quotation will be received during IIT (ISM) working hours only (i.e. Monday to Friday). Late or delayed tenders shall be summarily rejected.
- 16) Any other information that you may like to obtain, you are free to contact IIT (ISM) before submission of tender.
- 17) IIT (ISM) reserves the right to accept and/or to reject any/ all tenders without assigning any reason.

A5/03/18

Date: 19.03.2018





(मानव संसाधन एवं विकास मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय महत्त्व का संस्थान) INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

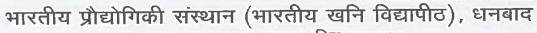
DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone: (0326) 2235678 || Email: purchase@ismdhanbad.ac.in || Website: www.iitism.ac.in

No.: Lib-500446-17-18

General Specification:  General Specification:  General Specification:  General Specification:  General Specification:  General Specification:  1.3. The sides shall be covered with steel panels with IS 513 Gr D standard and front an rear section shall be provided with access door fully perforated.  1.4. The rack should be provided with cable access roof and bottom cover for routing cables inside the cabined.  1.5. The rack should be able to carry load of 850 Kgs. Accessibility should make easy installation and maintenance tasks simple.  1.6. Cabinet should be completely knock downable for case of transport and handling.  2.1. The Network cabinet shall have the overall dimensions of 2068mm (H) x 800mm (W). The rack shall have total U space of 42U and usable depth of 899mm 3.1. The 19" mounting angles should be provided in pairs at front and rear as per the Diff. 41494 standard.  3.2. The rear 19" angles at front and rear should be fully recessible.  3.3. The 19" mounting angles are provided with the reducing cable channels so that the cables can be routed in structured manner.  3.4. Internal dimensions should be as per DIN 41494 / EIA 310-D. U marking should be one on the angle from bottom to top for easy management.  4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack.  4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack.  4.2. Doors shall be hinged from inside and casy removable. The side panels should be easily detachable with stam lock. Side panels should have stiffener to provides tiffness.  4.2. Both doors and side panels should be tool less installable.  5.1. The 19" mounting angles are provided with the vertical cabbe channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channel of the ca		Server Racl	k Specification Annexure-I
1.2. The 19" mounting angles at front and rear should be fully recessible.   1.3. The sides shall be covered with steet pnacks with 18 513 of rp standard and front an rear section shall be provided with acetes door fully perforated.   1.4. The rack should be provided with acetes door fully perforated.   1.4. The rack should be able to earry load of 850 Kgs. Accessibility should make easy installation and maintenance tasks simple.   1.5. Cabinet should be completely knock downable for ease of transport and handling.   2.1. The Network cabinet shall have the overall dimensions of 2068mm (H) x 800mm (W x 1000 mm (D). The rack shall have the overall dimensions of 2068mm (H) x 800mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm   3.1. The 19" mounting angles should be provided in pairs at front and rear as per the DIN 41494 standard.   3.2. The rear 19" angles at front and rear should be fully recessible.   3.3. The 19" mounting angles should be rovided with the reducing cable channels so that the cables can be routed in structured manner.   3.4. Internal dimensions should be as per DIN 41494 / EIA 310-D. U marking should be done on the angle from bottom to top for casy management.   4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with iminimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack.   4.2. Doors shall be hinged from inside and easy removable. The side panels should be cable to the should be tool less installable.   5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be culouts in the vertical channel for routing the cable from front to rear.   5.2. The top and bottom covers shall be provided with the vartical cable channels so that the cables can be routed in structured manner. There should be culouted in the vertical channels can be admitted to the cable from front to rear.   5.2. The top and botto	Ц,П		1.1. The Network rack frame should be robust and made of vertical heavy grade aluminum
1.3. The sides shall be covered with steel panels with 15 13 Gr D standard and front an rear section shall be provided with access door fully perforated.   1.4. The rack should be provided with cable access roof and bottom cover for routing cables installation and maintenance tasks simple.   1.5. The rack should be able to carry load of 850 Kgs. Accessibility should make easy installation and maintenance tasks simple.   1.6. Cabinet should be completely knock downable for ease of transport and handling.   2.1. The Network cabinet shall have the overall dimensions of 2068mm (H) x 800mm (W x 1000 mm (QD). The rack shall have total U space of 42U and usable depth of 899mm 3.1. The 19" mounting angles should be provided in pairs at front and rear as per the Diff 41494 standard.   3.2. The rear 19" angles at front and rear should be fully recessible.   3.3. The 19" mounting angles are provided with the reducing cable channels so that the cables can be routed in structured manner.   3.4. Internal dimensions should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack.   4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack.   4.2. Doors shall be hinged from inside and easy removable. The side panels should be casily detachable with slam lock. Side panels should be table less installable.   5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cautoust in the vertical channel for routing the cable from front to rear.   5.2. The top and bottom cover shall be provided with the cable entry cutouts and should be covered with gland plates.   6.1. The rack should be provided with swing handle lock with common key for both front mand rear door.   8.1. Rack shall be powder coated with Nano ceranic pre-t			profiles according to IS 1060 H2 standard connected to CRCA steel end frames.
General Specification:    I.a. The rack should be provided with acabe access roof and bottom cover for routing cables inside the cabinet.   I.a. The rack should be able to carry load of 850 Kgs. Accessibility should make easy installation and maintenance tasks simple.   I.a. Cabinet should be completely knock downable for case of transport and handling. 2.1. The Network cabinet shall have the overall dimensions of 2068mm (H) x 800mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall be provided with the reducing cable channels so that the cables can be routed in structured manner.  3.1. The 19" mounting angles are provided with the reducing cable channels should be done on the angle from bottom to top for easy management.  4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into a utside the rack.  4.2. Doors shall be hinged from inside and easy removable. The side panels should be utside the rack is utside panels should be tool less installable.  5.1. The 19" mounting angles are provided with the vertical cable channels so that the cable can be routed in structured manner. There should be tool tool to rear.  5.2. The top and bottom covers shall be provided with the cortical cable channels so that the cable can be routed in structured manner. There shou		0 0 0 0 0 0 0 0	1.2. The 19" mounting angles at front and rear should be fully recessible.
General Specification:    I.a. The rack should be provided with acabe access roof and bottom cover for routing cables inside the cabinet.   I.a. The rack should be able to carry load of 850 Kgs. Accessibility should make easy installation and maintenance tasks simple.   I.a. Cabinet should be completely knock downable for case of transport and handling. 2.1. The Network cabinet shall have the overall dimensions of 2068mm (H) x 800mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall be provided with the reducing cable channels so that the cables can be routed in structured manner.  3.1. The 19" mounting angles are provided with the reducing cable channels should be done on the angle from bottom to top for easy management.  4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into a utside the rack.  4.2. Doors shall be hinged from inside and easy removable. The side panels should be utside the rack is utside panels should be tool less installable.  5.1. The 19" mounting angles are provided with the vertical cable channels so that the cable can be routed in structured manner. There should be tool tool to rear.  5.2. The top and bottom covers shall be provided with the cortical cable channels so that the cable can be routed in structured manner. There shou			1.3. The sides shall be covered with steel panels with IS 513 Gr D standard and front and
1.1. The rack should be provided with cable access roof and bottom cover for routing cables inside the cabinet.  1.5. The rack should be able to carry load of 850 Kgs. Accessibility should make easy installation and maintenance tasks simple.  1.6. Cabinet should be completely knock downable for ease of transport and handling.  2.1. The Network cabinet shall have the overall dimensions of 2068mm (H) x 800mm (W x 1000 mm (QD). The rack shall have to the overall dimensions of 2068mm (H) x 800mm (W x 1000 mm (QD). The rack shall have total U space of 42U and usable depth of 899mm 3.1. The 19" mounting angles should be provided in pairs at front and rear as per the DIN 41494 standard.  3.2. The rear 19" angles at front and rear should be fully recessible.  3.3. The 19" mounting angles are provided with the reducing cable channels so that the cables can be routed in structured manner.  3.4. Internal dimensions should be as per DIN 41494 / EIA 310-D. U marking should be done on the angle from bottom to top for easy management.  4.1. Front and rear doors should be fully perforated (Hexagonal perforation) will minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack.  4.2. Doors shall be hinged from inside and easy removable. The side panels should be assily detachable with slam lock. Side panels should be tool less installable.  5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be culouts in the vertical channel for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.  5.1. The rack should be provided with superior ventilation with the hexagonal perforate door.  6.1. Rack shall be provided with superior ventilation with the hexagonal perforate door.  8.1. Rack shall be provided with superior ventilation with the hexagonal perforate door.  8.1. Rack shall be provided with super			
cables inside the cablinet.  1.5. The rack should be able to carry load of 850 Kgs. Accessibility should make easy installation and maintenance tasks simple.  2. Coverall Dimensions:  2.1. The Network cabinet shall have the overall dimensions of 2068mm (H) x 800mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (M x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (M x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (M x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (M x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (M x 1000 mm (D). The rack should be fully precessible.  3.1. The 19" mounting angles are provided with the reducing cable channels so that the cables can be routed in structured manner.  4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into audicide the rack.  4.2. Doors shall be hinged from inside and easy removable. The side panels should be cashly detachable with sham lock. Side panels should have stiffener to provide stiffness.  4.3. Both doors and side panels should be tool less installable.  5.1. The 19" mounting angles are provided with the vertical cable channels so that the cable can be routed in structured manner. There should be cutouts in the vertical channel for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the vertical eable channels of the cable from front to rear.  5.2. The top and bottom covers shall be provided with the vertical eable channels of the cable from front to rear.  6.1. The rack should be provided with swips handle lock with common key for both front and rear door.  8.1. Rack shall be provided with swips handle lock with common key for both front and rear door.	1	General Specification:	
1.5. The rack should be able to earry load of 850 Kgs. Accessibility should make easy installation and maintenance tasks simple.  2. Overall Dimensions:  2. 1. The Network cabinet shall have the overall dimensions of 2068mm (H) x 800mm (N). The rack shall have total U space of 420 and usable depth of 899mm (N). The 19" mounting angles should be provided in pairs at front and rear as per the DIM 41494 standard.  3. 1. The 19" mounting angles and provided with pare of 420 and usable depth of 899mm (N). The rack shall have total U space of 420 and usable depth of 899mm (N). The rack shall have total U space of 420 and usable depth of 899mm (N). The rack shall have total U space of 420 and usable depth of 899mm (N). The rack shall have total U space of 420 and usable depth of 899mm (N). The rack shall be provided with the reducing cable channels so that the cables can be routed in structured manner.  3.4. Internal dimensions should be as per DIN 41494 / EIA 310-D. U marking should be done on the angle from bottom to top for easy management.  4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 79% for better air flow into an outside the rack.  4.2. Doors shall be hinged from inside and easy removable. The side panels should be castly detachable with slam lock. Side panels should be coll less installable.  5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channel for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the cable entry cutouts and shoulb be covered with gland plates.  6. Thermal Management:  6. Thermal Management:  7. Security:  7. Security:  8. Powder coating:  8. Powder coating:  8. Powder coating:  9. Powder coating:			
Installation and maintenance tasks simple.   16. Cabine should be completely knock downable for ease of transport and handling.   2.1. The Network cabinet shall have the overall dimensions of 2068mm (H) x 800mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack should be fall to space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack should be fall to space of 42U and usable depth of 899mm (W x 1000 mm (D). The rack should be sper DIN 41494 / EIA 310-D. U marking should be tables can be routed in structured manner.  3.4. Internal dimensions should be as per DIN 41494 / EIA 310-D. U marking should be outside panels should be rack with the rack of 42. Doors shall be hinged from inside and easy removable. The side panels should be assily detachable with shall be loof less installable.  4.2. Doors shall be hinged from inside and easy removable. The side panels should be assily detachable with shall be loof less installable.  5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channel for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the vertical channels of the tables can be routed in structured manner. There should be cutouts in the vertical channels of the rack should be provided with superior ventilation with the hexagonal perforate door.  5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with grade of 200 mm (P)			
1.6. Cabinet should be completely knock downable for ease of transport and handling. 2.1. The Network cabinet shall have the overall dimensions of 2068mm (H) x 800mm (W x 1000 mm (D). The rack shall have to total U space of 42U and usable depth of 889mm 3.1. The 19" mounting angles should be provided in pairs at front and rear as per the DIN 41494 standard.   3.2. The rear 19" angles at front and rear should be fully recessible.   3.3. The 19" mounting angles are provided with the reducing cable channels so that the cables can be routed in structured manner.   3.4. Internal dimensions should be aper DIN 41494 / ElA 310-D. U marking should be done on the angle from bottom to top for easy management.   4.1. Front and rear doors should be aper DIN 41494 / ElA 310-D. U marking should be done on the angle from bottom to top for easy management.   4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack.   4.2. Doors shall be hinged from inside and easy removable. The side panels should be used to less installable.   5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables are not provided with shall be covered with gland plates.   5.1. The 19" mounting angles are provided with the vertical channel for routing the cable from front to rear.   5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.   6.1. The rack shall be provided with superior ventilation with the hexagonal perforate door   6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top.   7.1. The rack shall be provided with swing handle lock with common key for both front and rear door.   8.1 Rack shall be provided with swing handle lock with common key for both front and rear door.   8.1 Rack shall be provided with swing handle lock with common key for both front and rear door.   8.2. Powder coaling hickne			
2. 1. The Network cabinet shall have the overall dimensions of 2068mm (H) x 800mm (W x 1000 mm (D). The rack shall have total U space of 42U and usable depth of 899mm 3.1. The 19" mounting angles should be provided in pairs at front and rear as per the DN 41494 standard. 3.2. The rear 19" angles at front and rear should be fully recessible. 3.3. The 19" mounting angles are provided with the reducing cable channels so that the cables can be routed in structured manner. 3.4. Internal dimensions should be as per DIN 41494 / EIA 310-D. U marking should be done on the angle from bottom to top for easy management. 4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack. 4.2. Doors shall be hinged from inside and easy removable. The side panels should be assily detachable with slam lock. Side panels should have stiffener to provide stiffness. 4.3. Both doors and side panels should be tool less installable. 5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channel for routing the cable from front to rear. 5.2. The top and bottom covers shall be provided with the cable entry cutouts and shoul be exerved with gland plates. 6.1. The rack should be provided with superior ventilation with the hexagonal perforate door. 6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top. 7.1. The rack should be provided with swing handle lock with common key for both front and rear door. 8.1 Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant. 8.2 Powder coating thickness shall be 80 to 100 microns. 8.3. The colour of the powder coated with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's. 9.2. All Floor Mounting accessories requi			
19" Mounting angle:   3.1. The 19" mounting angles are provided with the reducing cable channels so that the cables can be routed in structured manner.   3.2. The rear 19" angles at front and rear should be fully recessible.   3.3. The 19" mounting angles are provided with the reducing cable channels so that the cables can be routed in structured manner.   3.4. Internal dimensions should be as per DIN 41494 / EIA 310-D. U marking should be done on the angle from bottom to top for easy management.   4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an uside the rack.   4.2. Doors shall be hinged from inside and easy removable. The side panels should be casily detachable with slam lock. Side panels should have stiffener to provide stiffness.   4.3. Both doors and side panels should be tool less installable.   5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channel for routing the cable from front to rear.   5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.   6.1. The rack should be provided with superior ventilation with the hexagonal perforated door   6.2 Four flans of 90 cfm 230V AC to be mounted on fan housing unit at the top.   7.1. The rack should be provided with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.   8.2. Powder coating hickness shall be 80 to 100 microns.   8.3. The colour of the powder coating process shall be ROHS compliant.   8.2. Powder coating hickness shall be 80 to 100 microns.   8.3. The colour of the powder coating process shall be ROHS compliant.   8.2. Powder coating hickness shall be 80 to 100 microns.   8.3. The colour of the powder coating process shall be ROHS compliant.   8.2. Powder coating hickness shall be 80 t			
19" Mounting angle:  10" Mount	2	Overall Dimensions:	
19" Mounting angle:  19" Mounting angle:  19" Mounting angle:  3.2. The rear 19" angles at front and rear should be fully recessible.  3.3. The 19" mounting angles are provided with the reducing cable channels so that the cables can be routed in structured manner.  3.4. Internal dimensions should be as per DIN 41494 / EIA 310-D. U marking should be done on the angle from bottom to top for easy management.  4. I. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack.  4. Doors shall be hinged from inside and easy removable. The side panels should be casily detachable with slam lock. Side panels should have stiffener to provide stiffness.  4. 3. Both doors and side panels should be tool less installable.  5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channel for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.  6. 1. The rack should be provided with superior ventilation with the hexagonal perforated door  6. 2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top.  7. 1. The rack should be provided with wing handle lock with common key for both front and rear door.  8. 1. Rack shall be provided with wing handle lock with common key for both front and rear door.  8. 1. Rack shall be provided with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.  8. 2. Powder coating thickness shall be 80 to 100 microns.  8. 3. The colour of the powder coat shall be Black.  9. 1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10. 2. Metered Power Distribution Unit: Metered Rack Power Di			
3.2. The rear 19" angles at front and rear should be fully recessible. 3.3. The 19" mounting angles: 3.4. Internal dimensions should be as per DIN 41494 / EIA 310-D. U marking should be done on the angle from bottom to top for easy management. 4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack. 4.2. Doors shall be hinged from inside and easy removable. The side panels should be easily detachable with slam lock. Side panels should have stiffener to provide stiffiness. 4.3. Both doors and side panels should be tool less installable. 5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutoust in the vertical channel for routing the cable from front to rear. 5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates. 6.1. The rack should be provided with superior ventilation with the hexagonal perforated door 6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top. 7.1. The rack shall be provided with Superior ventilation with the hexagonal perforated door 8.1. Rack shall be powder coating process shall be ROHS compliant. 8.2. Powder coating thickness shall be 80 to 100 microns. 8.3. The colour of the powder coat with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant. 8.2. Powder coating thickness shall be 80 to 100 microns. 8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 2 which helps in directly mounting the 19" equipment's. 9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes.  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side an			
3.3. The 19" mounting angles are provided with the reducing cable channels so that the cables can be routed in structured manner.  3.4. Internal dimensions should be as per DIN 41494 / E1A 310-D. U marking should be done on the angle from bottom to top for easy management.  4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack.  4.2. Doors shall be hinged from inside and easy removable. The side panels should be easily detachable with slam lock. Side panels should have stiffener to provide stiffness.  4.3. Both doors and side panels should be tool less installable.  5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channel for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.  6.1. The rack should be provided with superior ventilation with the hexagonal perforated door  7. Security:  8. Fowder coating:  9. Fowder coating:  8. Fowder coating thickness shall be good with same cramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.  8. Fowder coating thickness shall be 80 to 100 microns.  8. Fowder coating thickness shall be 80 to 100 microns.  8. Fowder coating thickness shall be 80 to 100 microns.  8. Fowder coating thickness shall be 80 to 100 microns.  8. Fowder coating thickness shall be 80 to 100 microns.  8. Fowder coating thickness shall be 80 to 100 microns.  8. Fowder coating thickness shall be 80 to 100 microns.  8. Fowder coating thickness shall be 80 to 100 microns.  8. Fowder coating thickness shall be 80 to 100 microns.  8. Fowder coating the coating thickness shall be 80 to 100 microns.  8. Fowder c			
cables can be routed in structured manner.  3.4. Internal dimensions should be as per DIN 41494 / EIA 310-D. U marking should be done on the angle from bottom to top for easy management.  4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack.  4.2. Doors shall be hinged from inside and easy removable. The side panels should be fully perforated with easily detachable with slam lock. Side panels should have stiffener to provide stiffness.  4.3. Both doors and side panels should be tool less installable.  5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channel for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.  6.1. The rack should be provided with superior ventilation with the hexagonal perforated door  6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top.  7.1. The rack shall be provided with swing handle lock with common key for both front and rear door.  8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coated with front panel captive hardware set in a pack of 2 which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes.  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit:  Metered Rack Power Distribution			3.2. The rear 19" angles at front and rear should be fully recessible.
cables can be routed in structured manner.  3.4. Internal dimensions should be as per DIN 41494 / EIA 310-D. U marking should be done on the angle from bottom to top for easy management.  4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack.  4.2. Doors shall be hinged from inside and easy removable. The side panels should be fully perforated with easily detachable with slam lock. Side panels should have stiffener to provide stiffness.  4.3. Both doors and side panels should be tool less installable.  5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channel for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.  6.1. The rack should be provided with superior ventilation with the hexagonal perforated door  7.1. The rack should be provided with swing handle lock with common key for both front and rear door.  8.1. Rack shall be provided with swing handle lock with common key for both front and rear door.  8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.  8.2. Powder coating thickness shall be 80 to 100 microns.  8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 2 which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes.  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit:  Metered Rack POWer Distributi	3	19" Mounting angle:	3.3. The 19" mounting angles are provided with the reducing cable channels so that the
3.4. Internal dimensions should be as per DIN 41494 / EIA 310-D. U marking should be done on the angle from bottom to top for easy management.  4.1. Front and rear doors should be fully perforated (Hexagonal perforation) will minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack.  4.2. Doors shall be hinged from inside and easy removable. The side panels should have stiffener to provide stiffness.  4.3. Both doors and side panels should have stiffener to provide stiffness.  4.3. Both doors and side panels should have stiffener to provide stiffness.  4.3. Both doors and side panels should have stiffener to provide stiffness.  4.3. Both doors and side panels should have stiffener to provide stiffness.  4.3. Both doors and side panels should be tool less installable.  5.1. The 19° mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channel for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.  6.1. The rack should be provided with superior ventilation with the hexagonal perforated door  7. Security:  8. Powder coating:  8. Rack shall be provided with swing handle lock with common key for both front and rear door.  8. 1. Rack shall be provided with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.  8. 2. Powder coating trickness shall be 80 to 100 microns.  8. 3. The colour of the powder coat shall be Black.  9. 1. The rack should be provided with front panel captive hardware set in a pack of 2 which helps in directly mounting the 19° equipment's.  9. 2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical pDUs at the rear side and should			
done on the angle from bottom to top for easy management.  4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside panels:  4.2. Doors shall be hinged from inside and easy removable. The side panels should be easily detachable with slam lock. Side panels should have stiffener to provide stiffness.  4.3. Both doors and side panels should be tool less installable.  5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channel for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.  6.1. The rack should be provided with superior ventilation with the hexagonal perforate door  6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top.  7.1. The rack shall be provided with swing handle lock with common key for both front and rear door.  8.1. Rack shall be provided with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.  8.2. Powder coating thickness shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical pDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit: Metered Rack Power Distribution Unit: Metered Rack Power Distribution Unit: Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web,			
4.1. Front and rear doors should be fully perforated (Hexagonal perforation) with minimum perforated area of 65% and cell opening ratio of 70% for better air flow into an outside the rack. 4.2. Doors shall be hinged from inside and easy removable. The side panels should easily detachable with slam lock. Side panels should have stiffner to provide stiffness. 4.3. Both doors and side panels should be tool less installable. 5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channe for routing the cable from front to rear. 5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates. 6.1. The rack should be provided with superior ventilation with the hexagonal perforated door 6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top. 7.1. The rack shall be provided with swing handle lock with common key for both front and rear door. 8.1. Rack shall be provided with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant. 8.2. Powder coating thickness shall be 80 to 100 microns. 8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's. 9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes 10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side. 10.2 Metered Power Distribution Unit: Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telent, SNMP, SSH, or InfraStruXure® Central interfaces. Outlets. The Rack PDU has th			done on the angle from bottom to top for easy management
### Front & rear doors and side panels:  ### Front & rear doors and side panels:  ### A.D. Doors shall be hinged from inside and easy removable. The side panels should be easily detachable with slam lock. Side panels should have stiffener to provide stiffness.  ### 4.3. Both doors and side panels should be tool less installable.  ### 5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channels for routing the cable from front to rear.  ### 5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.  ### 6.1. The rack should be provided with superior ventilation with the hexagonal perforated door  ### 6.2. Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top.  ### 7.1. The rack shall be provided with swing handle lock with common key for both front and rear door.  ### 8.1. Rack shall be provided with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.  ### 8.2. Powder coating thickness shall be 80 to 100 microns.  ### 8.3. The colour of the powder coat shall be Black.  ### 9.1. The rack should be provided with front panel captive hardware set in a pack of 2 which helps in directly mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  ### 10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  ### 10.2. Metered Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces. Overcurrent provection. The Rack PDU has two (2) 16 A. 1-pole hydraulic-magnetic circut brackers.  ### Display interface. The liquid crystal display			
Front & rear doors and side panels:   4.2. Doors shall be hinged from inside and easy removable. The side panels should be easily detachable with slam lock. Side panels should have stiffener to provide stiffness.   4.3. Both doors and side panels should be tool less installable.   5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channel for routing the cable from front to rear.   5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.   6.1. The rack should be provided with superior ventilation with the hexagonal perforated door   6.2. Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top.   7.1. The rack shall be provided with swing handle lock with common key for both front and rear door.   8.1. Rack shall be provided with swing handle lock with common key for both front and rear door.   8.2. Powder coating process shall be ROHS compliant.   8.2. Powder coating thickness shall be Black.   9.1. The rack should be provided with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's.   9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes   10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.   10.2 Metered Power Distribution Unit: Metered Rack Power Distribution Unit:			
side panels:  4.2. Doors shall be hinged from inside and easy removable. The side panels should be easily detachable with slam lock. Side panels should have stiffener to provide stiffness.  4.3. Both doors and side panels should be tool less installable.  5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channe for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.  6.1. The rack should be provided with superior ventilation with the hexagonal perforated door  6.2. Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top.  7. 1. The rack shall be provided with swing handle lock with common key for both front and rear door.  8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.  8.2. Powder coating thickness shall be 80 to 100 microns.  8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 2 which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit:  Metered Rack Power Back Power Distribution Unit:  Metered Rack Power Distribution Un		Front & soon doors and	
easily detachable with slam lock. Side panels should have stiffener to provide stiffness.  4.3. Both doors and side panels should be tool less installable.  5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channe for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.  6.1. The rack should be provided with superior ventilation with the hexagonal perforated door  6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top.  7.1. The rack shall be provided with swing handle lock with common key for both front and rear door.  8.1. Rack shall be provided with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.  8.2. Powder coating thickness shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 2 which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfrastruXure® Central interfaces.  Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established throu	4		
4.3. Both doors and side panels should be tool less installable.  5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channels for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.  6.1. The rack should be provided with superior ventilation with the hexagonal perforater door  6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top.  7.1. The rack shall be provided with swing handle lock with common key for both front and rear door.  8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.  8.2. Powder coating thickness shall be 80 to 100 microns.  8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit:  Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces. Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can b		side paneis:	4.2. Doors shall be ninged from inside and easy removable. The side panels should be
5.1. The 19" mounting angles are provided with the vertical cable channels so that the cables can be routed in structured manner. There should be cutouts in the vertical channe for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.  6.1. The rack should be provided with superior ventilation with the hexagonal perforated door  6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top.  7.1. The rack shall be provided with swing handle lock with common key for both front and rear door.  8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.  8.2. Powder coating:  8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 2 which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit: Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces. Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port, and remote communication through the network port. The USB and CAP p			easily detachable with slam lock. Side panels should have stiffner to provide stiffness.
cables can be routed in structured manner. There should be cutouts in the vertical channer for routing the cable from front to rear.  5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.  6.1. The rack should be provided with superior ventilation with the hexagonal perforated door  6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top.  7.1. The rack shall be provided with swing handle lock with common key for both front and rear door.  8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.  8.2. Powder coating thickness shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 2 which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit: Metered Rack Power Distribution Unit: Metered			
Cable Management:   S.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates.   G.1. The rack should be provided with superior ventilation with the hexagonal perforated door   G.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top.   7.1. The rack shall be provided with swing handle lock with common key for both front and rear door.   8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.   8.2. Powder coating thickness shall be 80 to 100 microns.   8.3. The colour of the powder coat shall be Black.   9.1. The rack should be provided with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's.   9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes   10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.   10.2 Metered Power Distribution Unit: Metered Rack Power Distribution Unit: Networted through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces. Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets   Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.   Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the			5.1. The 19" mounting angles are provided with the vertical cable channels so that the
5.2. The top and bottom covers shall be provided with the cable entry cutouts and should be covered with gland plates. 6.1. The rack should be provided with superior ventilation with the hexagonal perforated door 6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top. 7.1. The rack shall be provided with swing handle lock with common key for both front and rear door. 8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant. 8.2. Powder coating thickness shall be 80 to 100 microns. 8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's. 9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes 10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side. 10.2 Metered Power Distribution Unit: Metered Rack Power Distribution Unit: Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces. Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers. Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the			cables can be routed in structured manner. There should be cutouts in the vertical channe
be covered with gland plates. 6.1. The rack should be provided with superior ventilation with the hexagonal perforated door 6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top. 7.1. The rack shall be provided with swing handle lock with common key for both front and rear door. 8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant. 8.2. Powder coating thickness shall be 80 to 100 microns. 8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's. 9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes 10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side. 10.2 Metered Power Distribution Unit: Metered Rack Power Distribution Unit: Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces. Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the	5	Cable Management:	for routing the cable from front to rear.
be covered with gland plates. 6.1. The rack should be provided with superior ventilation with the hexagonal perforated door 6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top. 7.1. The rack shall be provided with swing handle lock with common key for both front and rear door. 8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant. 8.2. Powder coating thickness shall be 80 to 100 microns. 8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's. 9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes 10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side. 10.2 Metered Power Distribution Unit: Metered Rack Power Distribution Unit: Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces. Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the			5.2. The top and bottom covers shall be provided with the cable entry cutouts and should
6.1. The rack should be provided with superior ventilation with the hexagonal perforated door 6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top. 7.1. The rack shall be provided with swing handle lock with common key for both front and rear door. 8.1. Rack shall be provided with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant. 8.2. Powder coating thickness shall be 80 to 100 microns. 8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's. 9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes 10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side. 10.2 Metered Power Distribution Unit: Metered Rack Power Distribution Unit: Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces. Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers. Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the			
Security:   door			6.1. The rack should be provided with superior ventilation with the hexagonal perforated
6.2 Four fans of 90 cfm 230V AC to be mounted on fan housing unit at the top. 7.1. The rack shall be provided with swing handle lock with common key for both front and rear door. 8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant. 8.2. Powder coating thickness shall be 80 to 100 microns. 8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 2 which helps in directly mounting the 19" equipment's. 9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes 10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side. 10.2 Metered Power Distribution Unit: Metered Rack Power Distribution Unit: Metered Rack Power Distribution Unit: Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces. Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers. Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port, and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the	6	Thermal Managament	
7.1. The rack shall be provided with swing handle lock with common key for both front and rear door.  8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.  8.2. Powder coating thickness shall be 80 to 100 microns.  8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 2 which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit:  Metered Rack Power Distribution Unit:  Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces.  Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port, and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the			
and rear door.  8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.  8.2. Powder coating thickness shall be 80 to 100 microns.  8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit: Metered Rack Power Distribution Unit: Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure⊕ Central interfaces. Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the			
8.1. Rack shall be powder coated with Nano ceramic pre-treatment process using zirconium coat. The Powder coating process shall be ROHS compliant.  8.2. Powder coating thickness shall be 80 to 100 microns.  8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit: Metered Rack Power Distribution Unit: Metered Rack Power Distribution Unit: Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces. Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circular breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port, and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the	7	Security:	
Powder coating:			
8.2. Powder coating:  8.2. Powder coating thickness shall be 80 to 100 microns.  8.3. The colour of the powder coat shall be Black.  9.1. The rack should be provided with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit:  Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces.  Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port, and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the			
Hardware:    Part   Par	8	Powder coating:	
Hardware:  9.1. The rack should be provided with front panel captive hardware set in a pack of 20 which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit:  Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces. Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port, and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the			
which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit:  Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces.  Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port, and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the			8.3. The colour of the powder coat shall be Black.
which helps in directly mounting the 19" equipment's.  9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit:  Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces.  Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port, and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the			
9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2 with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit:  Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces.  Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A. 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) _ and input buttons _ allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port _, and remote communication through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows for monitoring of the			
with foot brakes and 2 without brakes  10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit:  Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces.  Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port, and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the	9	Hardware:	which helps in directly mounting the 19" equipment's.
10.1. The rack should have default provision for tool less mounting intelligent vertical PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit:  Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces.  Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port, and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the			9.2. All Floor Mounting accessories required to set up the rack. 4 Nos of Castor wheels, 2
PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit:  Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces.  Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) _ and input buttons _ allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port _, and remote communication through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows for monitoring of the			with foot brakes and 2 without brakes
PDUs at the rear side and should not affect the flow of air at the rear side.  10.2 Metered Power Distribution Unit:  Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces.  Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) _ and input buttons _ allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port _, and remote communication through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows for monitoring of the			10.1. The rack should have default provision for tool less mounting intelligent vertical
10.2 Metered Power Distribution Unit:  Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces.  Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port, and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the			PDUs at the rear side and should not affect the flow of air at the rear side.
Metered Rack Power Distribution Unit (PDU) distributes power to devices in the rack. It has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces.  Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) and input buttons allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port, and remote communication through the network port. The USB and CAN ports enable data transfer for future expansion options. The environmental sensor port allows for monitoring of the			
has a sensor that measures the current that it and its attached devices use. It can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces.  Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A. 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) _ and input buttons _ allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port _, and remote communication through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows for monitoring of the			
monitored through Web, Telnet, SNMP, SSH, or InfraStruXure® Central interfaces.  Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) _ and input buttons _ allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port _, and remote communication through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows for monitoring of the			
Outlets. The Rack PDU has thirty-six (36) IEC-320-C13 and six (6) IEC-320-C19 locking outlets  Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) _ and input buttons _ allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port _, and remote communication through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows for monitoring of the			
outlets Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers. Display interface. The liquid crystal display (LCD) _ and input buttons _ allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port _, and remote communication through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows for monitoring of the			Order The Deals Divide with a strict of the Control
Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers.  Display interface. The liquid crystal display (LCD) _ and input buttons _ allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port _, and remote communication through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows for monitoring of the	10	PDU:	
breakers. Display interface. The liquid crystal display (LCD) _ and input buttons _ allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port _, and remote communication through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows for monitoring of the			
Display interface. The liquid crystal display (LCD) _ and input buttons _ allow you to monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port _, and remote communication through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows for monitoring of the			Overcurrent protection. The Rack PDU has two (2) 16 A, 1-pole hydraulic-magnetic circui
monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port _, and remote communication through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows for monitoring of the			
monitor current, power, and voltage measurements of the Rack PDU. Local communication can be established through the serial port _, and remote communication through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows for monitoring of the			
communication can be established through the serial port _, and remote communication through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows for monitoring of the			monitor current, power, and voltage measurements of the Rack PDU. Local
through the network port. The USB _ and CAN _ ports enable data transfer for future expansion options. The environmental sensor port _ allows for monitoring of the			communication can be established through the serial port _, and remote communication
expansion options. The environmental sensor port allows for monitoring of the			through the network port. The USB and CAN ports enable data transfer for future
temperature and humidity of the room or enclosure.			expansion options. The environmental sensor port allows for monitoring of the
1 Temperature and numbers of the footh of electronic.			temperature and humidity of the room or enclosure
			remperature and number of the foom of enclosure.





धनबाद, झारखण्ड<sup>,</sup> भारत, पिन-826004

(मानव संसाधन एवं विकास मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय महत्त्व का संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone: (0326) 2235678 || Email: purchase@ismdhanbad.ac.in || Website: www.litism.ac.in

10	Grounding:		Power cord. The 3.00-m (10-ft) power cord terminates with a 32 A, 3-pin IEC-309 connector.  Tool less mounting. The Rack PDU has two tools less mounting pegs _ for 0 U mounting capabilities in a rack or enclosure.  11.1 All the rack components should be internally, electrically connected and to be provided with the single point extension for cabinet grounding. The rack should also consist of the earthing bar for equipment grounding		
11					
SI					
No			Environment Monitoring		
A	SUMMARY Product	Environ	mental Monitoring Appliance to Prevent equipment failure from a full range of threatening		
1	Specifications		mental conditions		
В	Manageability	10			
1	Enterprise management system compatible	Make de SNMP t	Make device information available to preferred enterprise management system by forwarding SNMP traps (events) across SNMPv1, SNMPv2 and SNMPv3 using the PowerNet MIB		
2	The extensible platform can be scaled to meet changing business needs and requirements on demand. The management of additional devices is allowed as needed, while powerful facility a service management applications help to expand the product's management capabilities.				
3	Adjustable threshold	Custom requirer	ize threshold definitions (multiple thresholds per sensor, scheduling, severity levels) to you nents.		
C	Availability	2 4000			
1	Browser		e user interface with a browser. Provides quick access from anywhere on a secure network.		
•	accessible	Capable	to Reboot equipment remotely		
2	Fault notification  Real-time event notification minimizes response times to critical physical infrastructure situations.  Enables IT Administrators to reduce mean time to repair, improve efficiency, and maximize uptim				
D	Protection				
1	Access monitoring Detect access by unauthorized personnel via door switch.				
2	Password Security	Active	electable password protection prevents unauthorized access, authorized against LDAP and Directory servers.		
3	Encryption	Helps e	nsure effective access control and integrity for SSL browser and SSH sessions.		
E	Sensors				
1	Number of wireless sensors supported	Number of wireless sensors 47			
2	Number of wired sensors supported	42			
3	wireles		ess: temperature, temp/humidity l: temperature, temp & humidity, spot fluid, door contact, dry contact, vibration, smoke, n		
4	Sensor pods supported	Wired	l sensor pod 150, wireless sensor pod 180		
5	Additional		hed outlet, voltage output		
F	Electrical	100	The are the save it		
<u>. 1</u>	Input Voltage, nor		100-240 VAC; 50/60 Hz		
2	Maximum total cu draw for AC Line	Inlet	10 A (defined by switched outlet load + 0.25 A)		
3	Maximum output voltage for switched outlet		Defined by input voltage		
4	Maximum output current		10 A (defined by switched outlet load)		
	Voltage for Voltage				
5	Voltage for Volta Output contacts	ge	12 Vdc, 24 VAC		

Date: 19.03.2018



# भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्डे, भारत, पिन-826004

(मानव संसाधन एवं विकास मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय महत्त्व का संस्थान)

# INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone: (0326) 2235678 || Email: purchase@ismdhanbad.ac.in || Website: www.iitism.ac.in

No.: Lib-500446-17-18

SI No	ATS				
A	SUMMARY				
1 Product Specifications RACK ATS, 20A/208V, 16A/230V, C20 IN, (8) C13 (1) C19 OUT					
	Local Current Monitoring Display	The aggregate current draw per rack PDU is displayed on the unit via a digital display. The local display helps installers avoid overloaded circuits by providing a visible warning when the current close to the maximum amperage draw of the strip.			
В	Manageability		1 11 1 0 11 10		
1	Network Management Capabilities	and Telnet. All	Full-featured network management interfaces that provide standards-based management via Web, SNMP, and Telnet. Allows users to access, configure, and manage rack PDUs from remote locations to save valuable time. Associated with this feature is the ability to quickly and easily upgrade the firmware via network download to installed units for future product enhancements.		
2	Color LCD display	Provides more	robust and intuitive local control and manageability.		
C	Availability	Children .			
1	Transfer time	source failure	Industry leading transfer time i.e. <10ms, to ensure seamless ride through in the event of a primary power source failure		
2	Dual Input Power Sources	Supplies redut AC power fail	Supplies redundant AC power to connected equipment. Two AC lines power the unit and if the primary AC power fails, the unit will automatically switch to the alternative power source		
D	Protection	Acon Control			
1	Overcurrent Protection	10 kAIC Over	10 kAIC Overcurrent Protection to provide protection in the event of a significant overcurrent event.		
E	Output	MIERAIIVA.			
1	Nominal Output Voltage	230V	230V		
2	Overload Protection	No	No		
3	Maximum Total Current Draw	16			
4	Output Connections	(1) IEC 320 C (8) IEC 320 C	19 (Battery Backup) 213 (Battery Backup)		
F	Input				
1	Nominal Input Voltage	200V, 208V	, 230V		
2	Input frequency	47 - 63 Hz			
3	Input Connections	IEC-320 C20			
4	Maximum Input Current	num Input 20A			
5	Maximum Line Current	1 /UA			
G	Environmental				
_1_	Operating Temperature -5 - 45 °C				
2		perating Relative Humidity 5 - 95 %			
3		Operating Elevation 0-3000 meters			
4		Storage Temperature -25 - 65 °C			
5	Storage Relative Humidity 5 - 95%				
6		Storage Elevation 0-15000 meter			
Н	Conformance	1000			
1	Approvals Standard		CE, EN 55022 Class A, FCC Part 15 Class A, UL Listed		
2	warranty	2 years repai	r or replace		
-	3 RoHS Compliant				

A19/3/18

\*\*\*\*\*\*\*\*



## भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन एवं विकास मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय महत्त्व का संस्थान) INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

DHANBAD, JHARKHAND, INDIA, PIN-826004 (An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone (0326) 2235678 | Email: purchase@ismdhanbad.ac.in || Website: www.iitism.ac.in

No.: Lib-500446-17-18

Date: 19.03.2018

Annexure - II

### Format for Commercial Bid

Our NIT No.: Lib-500446-2017-18

Date:

Bidders Ref: No.

Date:

GSTIN No.:

Sub: Supply & Installation of Computer Server rack - 01 no.

Sl. No.	Full Description of Items	Qty.	Rate	Amount	
1 10					
	Y Y				
2.0		Packin	g & Forwarding (if any)	ding (if any)	
	3 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	Total			
			GST		
-			Freight (if any)		
			Installation (if any)		
Amount should be in figure as well as word			Grand Total		

#### Note:

1) All the details must be provided as per prescribed format only

2) Prices quoted by the bidders should include all local taxes, VAT, service tax, duties, livies, transportation cost and insurance costs etc. if any

3) All the rates must be quoted in Indian Rupees.

19/3/18